

Listing of Claims:

Claims 1 through 21. (canceled)

Claim 22 (new): Procedure for the increase of the nutrient-bio-availability of vital substances in a test person that wishes such an increase for improvement of wellbeing, which includes the administration of a nutritiously active quantity of at least one nutritional additive and a quantity of galactomannan and/or glucomannan that increases the bio-availability, characterized by that water-soluble or fat-soluble, in the water suspended, vital substances are embedded in a botanical matrix of a polysaccharide individually or as a complex separately and always separated from each other in their function, whereby the from this obtained granulate swells when taken and the embedded active substances are slowly released for resorption by the human or animal digestive system.

Claim 23 (new): Procedure according to claim 22, characterized by that HGH (source somatotropin) is embedded in galactomannan and/or glucomannan.

Claim 24 (new): Procedure according to claim 22, characterized by that the mentioned nutritional material comprises at least one material that is selected from a group that consists of that consists of herbal extracts, water-soluble vitamins, fat-soluble vitamins, amino acids, fatty acids, minerals and antioxidants and hormones.

Claim 25 (new): Procedure according to claim 22, characterized by that the mentioned herbal extract is selected from a group that consists of ashwaganda, boswellin, capsaicin, curcumin, holy thistle extract, sceletium, and ayurvedic herbal extracts.

Claim 26. (new) Procedure according to claim 22, characterized by that the mentioned water-soluble vitamins are selected from a group that consists of vitamin B1, vitamin B2, niacin, vitamin B6, vitamin B12, folacin, inositol, vitamin B5, and vitamin C, whereby the fat-soluble vitamins are selected from a group that consists of vitamin A, vitamin D, vitamin E, and biotin.

Claim 27. (new) Procedure according to claim 22, characterized by that the mentioned water-soluble vitamins are selected from a group that consists of vitamin B1, vitamin B2, niacin, vitamin B6, vitamin B12, folacin, inositol, pantothenic acid, and vitamin C, whereby the fat-soluble vitamins are selected from a group that consists of vitamin A, vitamin D, vitamin E, and biotin.

Claim 28. (new) Procedure according to claim 22, characterized by that the mentioned antioxidants are selected from a group that consists of mixed carotenoids, the co-enzyme Q10, lycopenes, lutein, zeaxanthin, bioflavonoids, germanium, selenium, zinc, vitamin A, vitamin C, und vitamin E, alpha-Lipoic, grape sperm phytosome, extract from green tea and extract from pine bark.

Claim 29. (new) Procedure according to claim 22, characterized by that the mentioned amino acids are selected from a group that consists of N-acetyl-cysteine, acetyl-L carnitine, L-arginine HCL, L-carnitine, endorphenyl D-phenylalanine, GABA, L-glutamine, L-glycine, L-histidine, L-lysin, L-methinin, L- and DL-phenylalanine, proline, taurine, 5-hydroxy-tryptophan, L-tyrosin.

Claim 30. (new) Procedure according to claim 22, characterized by that the mentioned minerals are selected from a group that consists of calcium, chrome, copper, germanium, lead, iron, magnesium, manganese, selenium, silicon, vanadium, zinc.

Claim 31. (new) Application of polysaccharides, such as galactomannans, glucomannans, and of a similar kind, for the infiltration of active substances according to claim 22, characterized by that the vital substances are embedded in a botanical matrix individually or as a complex separately and always separated from each other in their function.

Claim 32. (new) Application according to claim 31, characterized by that the vital substances are vitamins, minerals, trace elements, plant content substances, amino acids, coenzymes, and other metabolically active substances.

Claim 33. (new) Application according to claim 31, characterized by that the active

substance is dissolved in water or, in the case of fat-soluble active substance, is suspended in water, the solution or suspension is slowly added to and mixed with the purified polysaccharide, the emerging gel is dried by an economizing procedure, the clog that forms from the drying fragments and is filtered for the desired grain size (preferably 0.2 – 2 mm).

Claim 34. (new) Polysaccharide according to claim 31, characterized by that a granulate contains a multitude of granulate particles, whereby in a first granulate particle a first active substance and in a second granulate particle a second active substance is embedded.

Claim 35. (new) Polysaccharide according to claim 34, characterized by that the granulate particle are separated in function and do not interact with each other in an undesired way.

Claim 36. (new) Polysaccharide according to claim 31, characterized by that the granulate particle contains a multitude of grid or grate shaped polysaccharide molecules, which form a lattice pattern, whereby in the interstices of the lattice pattern the ions of the active substance are bonded through a coordinate bond in the lattice pattern of the polysaccharide molecules.

Claim 37. (new) Polysaccharide according to claim 31, characterized by that polysaccharide molecules contain a surrounding H₂O surface film, that completely encloses and shields the thread-like structure.

Claim 38. (new) Polysaccharide according to claim 31, characterized by that the thread-like polysaccharide molecules OH groups and that ions of the active substance in the interstice between the molecules are bonded by a coordinate bond.

Claim 39. (new) Polysaccharide according to claim 31, characterized by that because of the penetration of water or intestinal fluids in the interstices of the molecules these move two dimensionally opposite to each other.

Claim 40. (new) Polysaccharide according to claim 31, characterized by that the active substance exhibits a delayed release, whereby the single threads are in layers removed by the penetrating water or the intestinal fluids, whereby the grating structure is removed in layers, and

releases the active substance ions that are adsorbed in the interstices.

Claim 41. (new) Polysaccharide according to claim 31, characterized by that the thread-like molecules are surrounded by a hydrate coat.

Respectfully submitted,



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